



AI in Education: Innovate or Automate?

Dr Philippa Hardman, founder of DOMS AI™

**Online learning
is broken**





\$166B was spent on online learning in 2021, but only **4% of learners complete online learning** & only **12% of learners** report learning transfer.

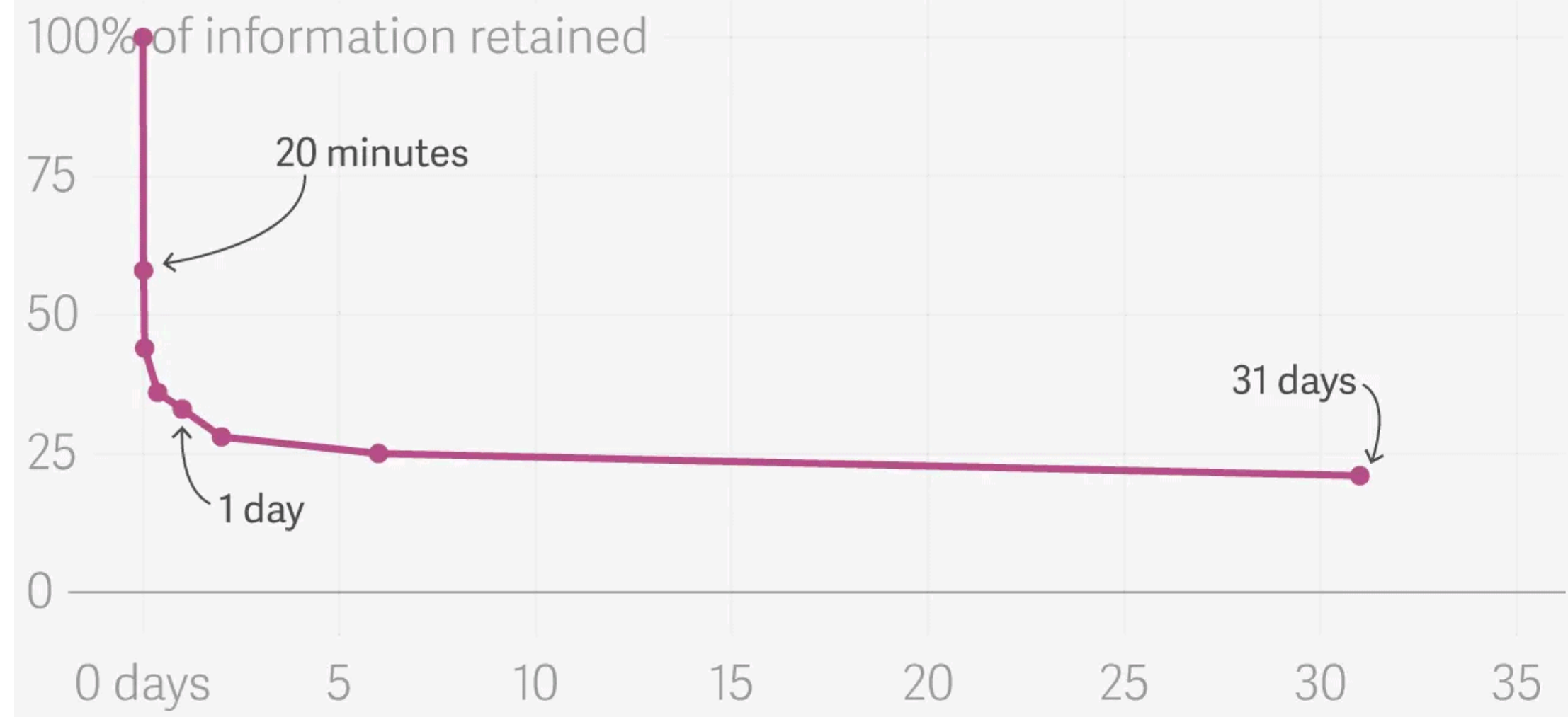
What's the problem?

Pedagogy (and precedent)

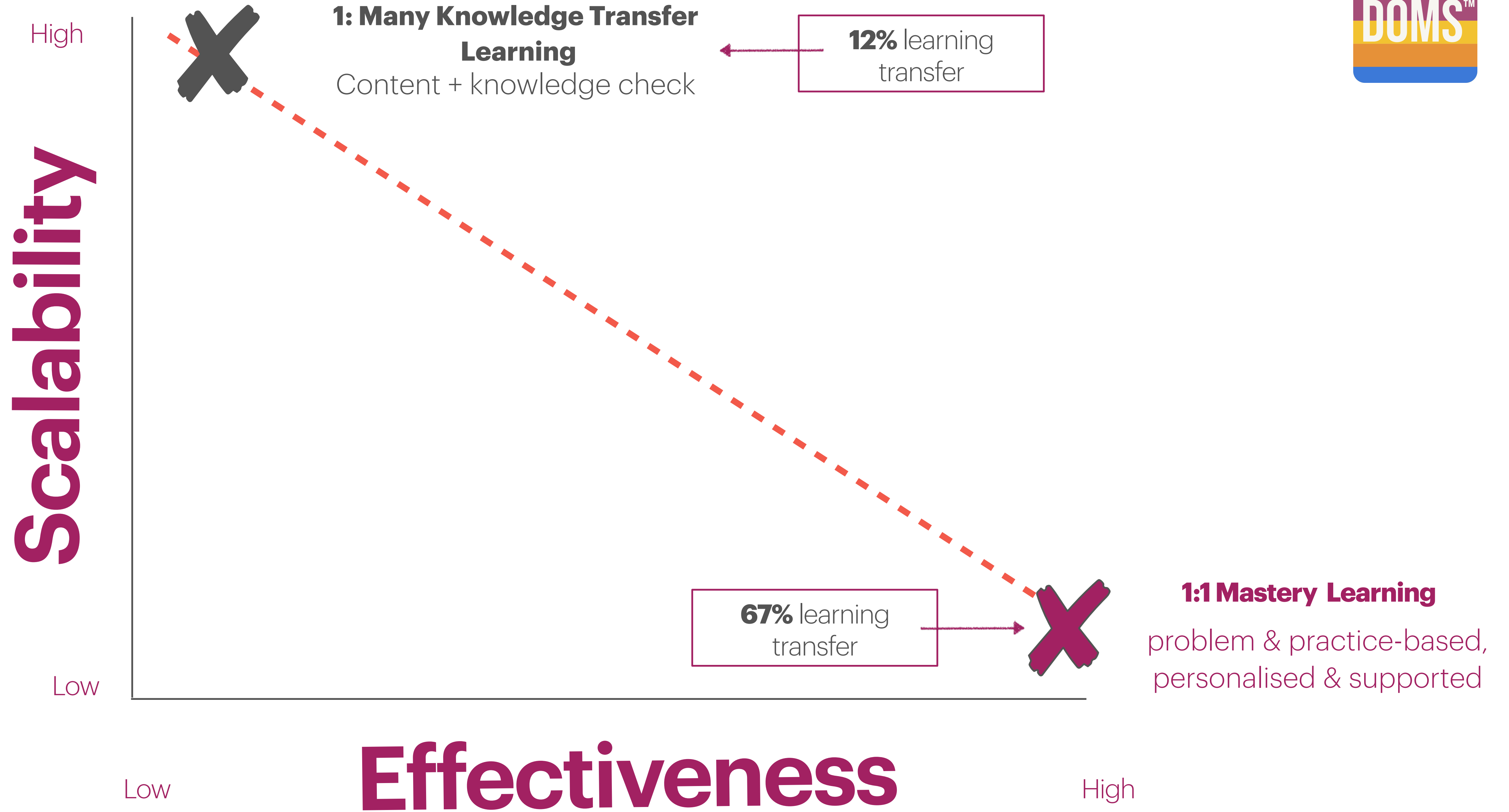


The Curse of Knowledge Transfer

Hermann Ebbinghaus' forgetting curve



Practicalities



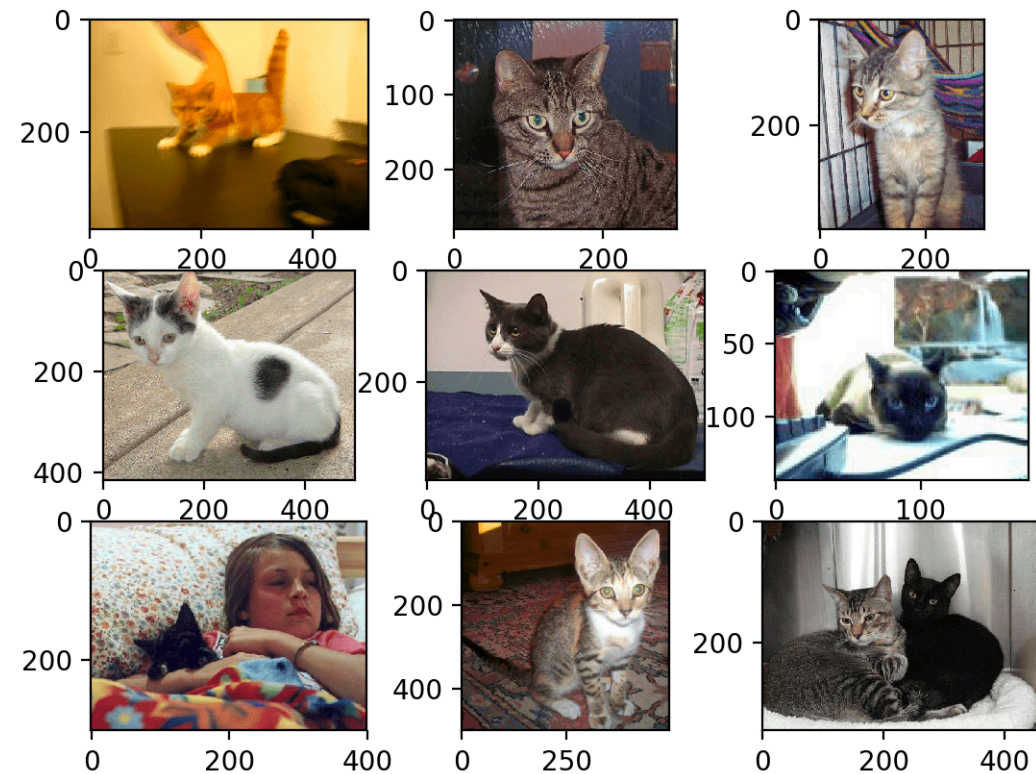
Will AI help?



AI 101

Classification

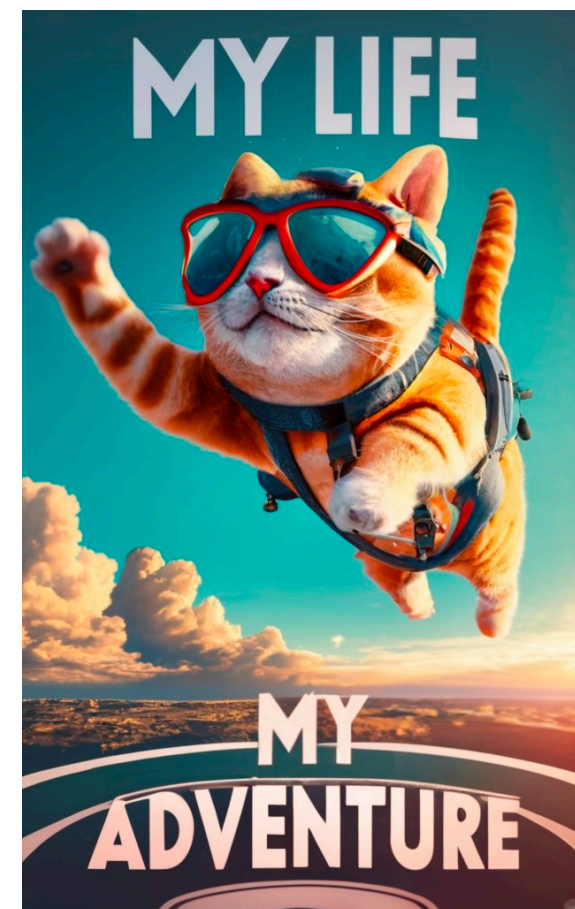
AI is trained to recognise patterns - "machine learning"



"This data pattern = cat"

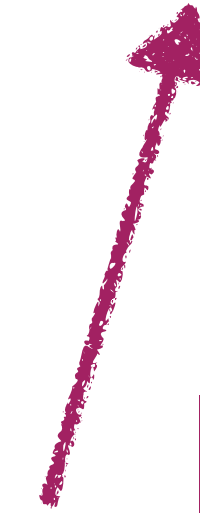
Generation

AI can reproduce learned patterns on demand



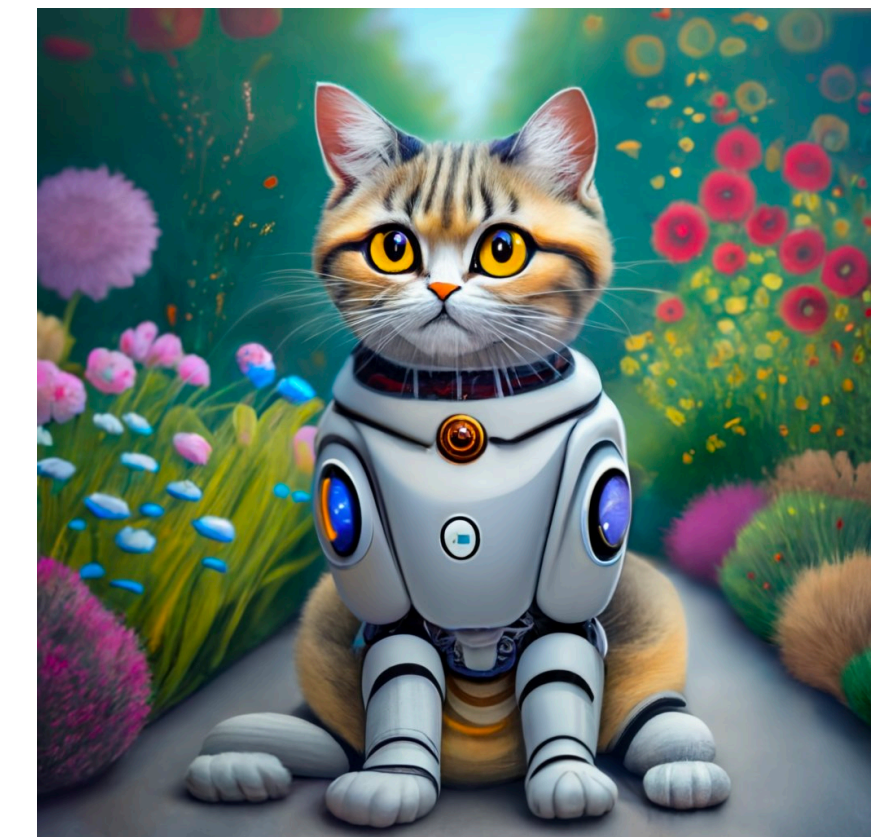
"Generate me a poster for a movie about a cat"

AI is here



Interaction

AI can communicate with both users & other AI models to accomplish tasks



"Build me an AI pet cat called Wiskaz"

AI + Online Learning

Classification

Platforms which classify, curate & recommend content

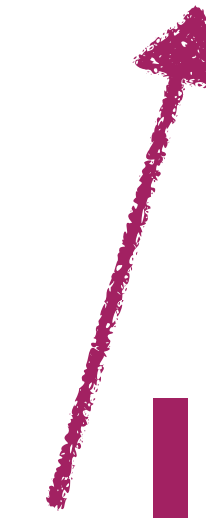


Generation

Tools which enable rapid content generation



AI is here



Interaction

Tools trained to enhance specific roles and/or tasks

TBC

2023: A Crossroads for Learning Design



**“The biggest risk of AI is
that it automates
ineffective practice.”**

Prof. Dan Schwartz (definitely)

The Curse of AI Automation

“If I had asked people what they wanted, they would have said faster horses.”

Henry Ford (maybe)



AI for
Augmentation
before
Automation

AI for Augmentation



Analysis

Use AI to **profile learner motivations & define learner ZPD** based on learner data, LMS & feedback data

Design

Use AI trained in learning science to **recommend the optimal instructional strategy** for the learners, topic & objectives in question

Use AI to **ingest & classify verified internal & expert content** to use as the basis of all training

Delivery

Use an AI trained to be an expert coach and SME **to support each learner** through each programme, adapting content & projects on the fly until the goal is hit

Use an expert AI coach to **connect & manage interactions** between Peers

Evaluation

Use AI dashboards to **generate real time data** on learner engagement & achievement

Learning Design Team 4.0



Leadership

Develop **AI strategy** incl. considerations of data ethics & privacy

Identify & build **partnerships** with AI product teams

Define methods for accessing & analysing learner data & **identifying priorities**

Keep abreast of the **use of AI in the education space globally** & keep the team unskilled & aware

Design

Source & select AI input data ensuring it's high quality & up to date

Co-create instructional designs & content with AI

QA & validate AI-generated instructional designs & content

Monitor AI dashboards to generate real time data on the impact of interventions on skills & adjust parameters as needed

Learning Design Team 4.0



Collaboration with AI > learn how to work *with* AI to increase your efficiency (speed) *and* effectiveness (impact on outcomes)

New Focus on Design Over Delivery > develop your learning science & research skills

Data-Driven Decision Making > develop your data analysis skills

Data Privacy, Bias & Ethics > understand how AI works & how to protect & serve all learners

**Are humans
ready for an
AI revolution?**



Thank You

Linked 

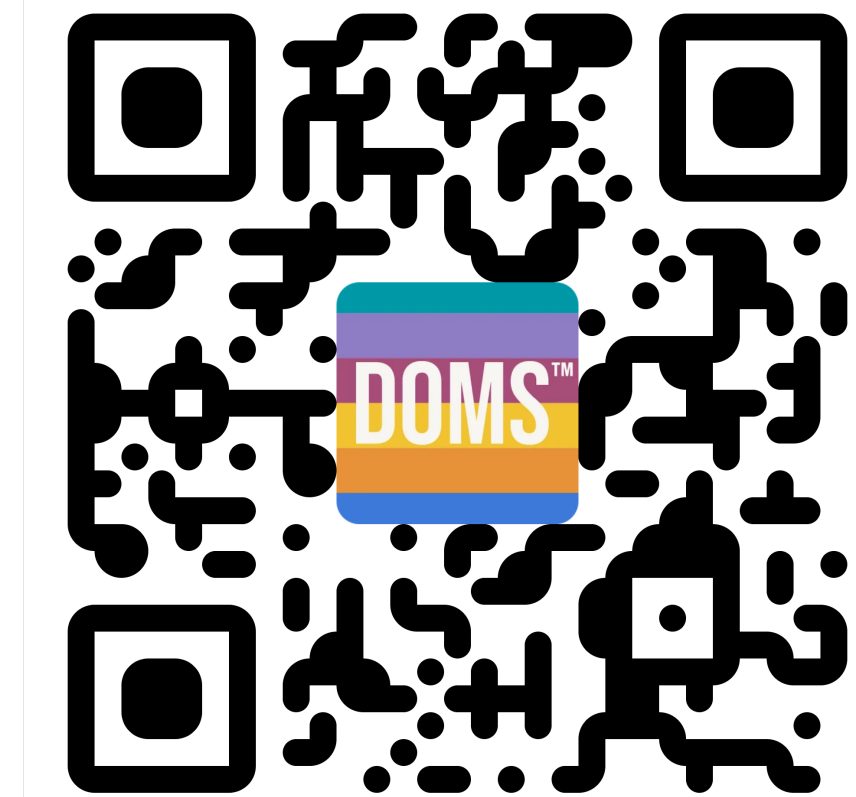
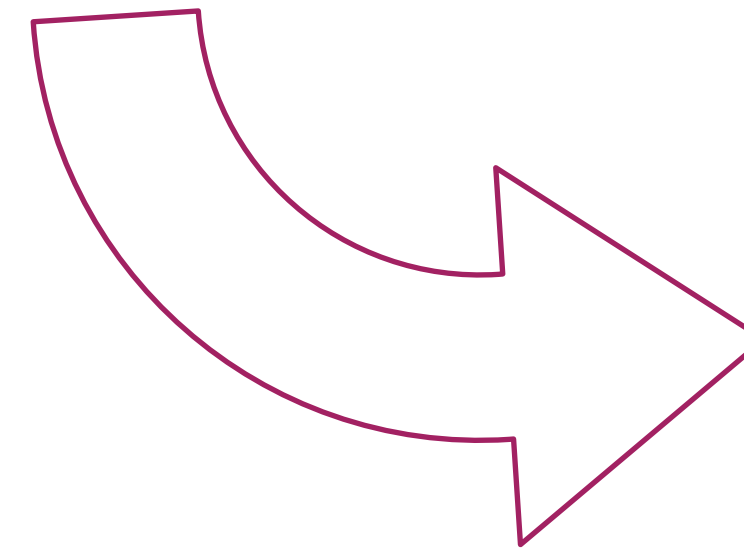


Dr Philippa Hardman

AI + education. Creator of the DOMS™
learning science design engine | TEDX Speake...



Learn more about my research



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